

LISTING OF CLAIMS

1. (Previously Presented) An ionically crosslinked resin composition which exhibits reversible crosslinking behavior prepared by copolymerizing an alpha, beta ethylenically unsaturated monomer with an oil soluble metal salt prepared by reacting (A) a metal compound with (B) an acid functional compound which is a reaction product of (1) an alpha-beta ethylenically unsaturated hydroxy compound and (2) a carboxylic polyacid, anhydride, sulfur oxide, or phosphorus oxide.
2. (Previously Presented) The ionically crosslinked resin composition of claim 1 prepared in the presence of a free radical initiator.
3. (Previously Presented) The ionically crosslinked resin composition of claim 1 in the form of a hot melt adhesive.
4. (Previously Presented) The ionically crosslinked resin composition of claim 1 in the form of a pressure sensitive adhesive.
5. (Previously Presented) The ionically crosslinked resin composition of claim 4 wherein the pressure sensitive adhesive is a solvent based adhesive.
6. (Previously Presented) The ionically crosslinked resin composition of claim 1 wherein the alpha, beta ethylenically unsaturated monomer is one or more (meth)acrylates.
7. (Previously Presented) The ionically crosslinked resin composition of claim 6 in the form of a pressure sensitive adhesive wherein the unsaturated monomer is a mixture of butyl acrylate and 2-ethyl hexyl acrylate.
8. (Cancelled)

9. (Previously Presented) The ionically crosslinked resin composition of claim 1 wherein the metal of the metal compound is selected from the group consisting of lithium, sodium, potassium, cesium, magnesium, calcium, strontium, barium, titanium, zirconium, vanadium, chromium, molybdenum, tungsten, manganese, iron, cobalt, nickel, palladium, copper, zinc, cadmium, mercury, boron, aluminum, gallium, indium, silicon, germanium, tin, lead, antimony, and bismuth.
10. (Previously Presented) The ionically crosslinked resin composition of claim 9 wherein the metal salt is zinc oxide.
11. (Previously Presented) The ionically crosslinked resin composition of claim 1 wherein the carboxylic polyacid, anhydride, sulfur oxide, or phosphorus oxide is selected from the group consisting of include phthalic acid, trimellitic anhydride, pyromellitic anhydride, 5-norbornene-endo-2,3-dicarboxylic anhydride, naphthyl anhydride, naphthalene tetracarboxylic acid dianhydride, maleic anhydride, succinic anhydride, chlorendic anhydride, maleic acid, succinic acid, fumaric acid, oxalic acid, malonic acid, glutaric acid, adipic acid, dimer fatty acids, styrene/maleic anhydride polymers, and methyl hexahydrophthalic anhydride.
12. (Previously Presented) The ionically crosslinked resin composition of claim 1 wherein the alpha-beta ethylenically unsaturated hydroxyl compound is an ethylenically unsaturated hydroxy derivative of a polyol.
13. (Previously Presented) The ionically crosslinked resin composition according to claim 12, wherein the said ethylenically unsaturated hydroxy derivative of polyol is selected from the group consisting of ethylene glycol, propylene glycol, 1,3-propanediol, 1,2, 1,3 or 1,4 butanediols, 2-methyl-1,3-propane diol (MPDiol), neopentyl glycol (NPG), alkoxylated derivatives of such diols, polyether diols, and polyester diols.
14. (Previously Presented) The ionically crosslinked resin composition according to claim 1 wherein the said oil soluble metal salt is a zinc salt prepared by reacting methyl

hexahydrophthalic anhydride with a polyethylene glycol acrylate of the formula HO(C₂H₅O)_n OCHC=CH₂ wherein n is 6 to form a half ester, and reacting the half ester with zinc oxide.

15. (Cancelled).

16. (Cancelled).

17. (Cancelled).

18. (Cancelled).

19. (Cancelled).

20. (Cancelled).

21. (Cancelled).

22. (Cancelled).

23. (Previously Presented) The ionically crosslinked resin composition of claim 1 wherein the metal salt is zinc oxide, the hydroxy functional compound is polyethylene glycol having 2 to 10 ethylene units, and the carboxylic polyacid, anhydride, sulfur oxide, or phosphorus oxide is methyl hexahydrophthalic anhydride.

24. (Cancelled).

25. (Cancelled).

26. (Previously Presented) The ionically crosslinked resin composition of claim 1 wherein the resin composition is in the form of a putty, adhesive, or sealant.